



6th Math - Instructional Plan: First Semester

Course Overview

Welcome to 6th Grade Math! This course is designed to build a strong foundation in mathematical concepts and problem-solving skills that will prepare scholars for success in middle school, high school, and beyond. Over the course of the year, students will explore a variety of topics that are essential for developing mathematical fluency, reasoning, and critical thinking.

Students will engage in hands-on learning, real-world applications, mathematical discussions, and collaborative tasks. The curriculum emphasizes conceptual understanding, procedural fluency, and the ability to apply mathematics in everyday situations.

Units of Study Include:

- **Number Operations:** Whole numbers, decimals, and fractions – including addition, subtraction, multiplication, and division
- **Ratios and Proportional Relationships:** Using ratios, rates, and percents to solve real-world problems
- **Algebraic Reasoning:** Expressions, equations, variables, and inequalities
- **Geometry and Measurement:** Area, perimeter, volume, surface area, and properties of two- and three-dimensional figures
- **Data and Statistics:** Organizing and analyzing data using graphs, tables, mean, median, mode, and range
- **Personal Financial Literacy:** Understanding income, spending, saving, and credit

Instructional Approach:

We will use a variety of strategies including direct instruction, group work, technology integration, manipulatives, and problem-based learning. Students will also engage in regular math talks, use visual models, and apply concepts to real-life contexts.

Assessment:

Student progress will be assessed through a combination of:

- Classwork and participation
- Quizzes and tests
- District benchmarks, I-Ready assessments, MAP assessments and STAAR assessments

By the end of this course, students will be equipped with the skills and confidence needed to tackle more advanced math in the coming years. Together, we will make math meaningful, challenging, and fun!



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Contact Information

Teacher Name: Diana Davis

Email: diana.davis@midlandisd.net

Phone: (432) 240-8139

Classroom Expectations

Our classroom is a safe learning place, which encourages teamwork, positive feedback, and academic achievement. All students will be respectful to others. We will be good listeners to the teacher and to other's ideas. All students will be hard working contributors in the process of getting their education in order to be successful and reach their full potential.

Expectation 1: Be respectful

- Use appropriate voice level
- Raise your hand, and wait your turn to speak
- Listen to all instructions and directions
- Stay in your seat and wait for teacher permission

Expectation 2: Be responsible

- Complete all assigned tasks
- Be prepared: Have all necessary materials

Expectation 3: Be safe

- Always keep your hands and feet to self
- Walk at all times
- Report problems to an adult

Expectation 4: Be ready to learn and try your best every day

- Come to class on time
- Prioritize daily attendance

Positive reinforcement and clear routines will help students learn and meet these expectations. If expectations are not met, the teacher will first reteach and remind the student(s) of expectations. If a student continues to fail to meet expectations, they will be redirected, then parents will be contacted. If a student is unable to meet expectations after these preventative measures, an office referral will be made.

Attendance Policy & Its Importance

Regular attendance is crucial for academic success, especially in 6th grade as students build foundational skills for middle school and beyond. Every day of instruction counts—missing even a few days can lead to gaps in understanding, lower grades, and increased stress. Being present in class helps students stay engaged, keep up with assignments, and participate in important discussions and activities. Strong attendance sets the tone for responsibility, consistency, and long-term success in school.



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Please notify the school if your child will be absent.

Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.

Learning Objectives:

Throughout the year, scholars will develop a deep understanding of key mathematical concepts and skills. By the end of 6th grade, they will be able to:

1. Number Sense and Operations

- Apply operations with whole numbers, decimals, and fractions (including mixed numbers)
- Understand and work with factors, multiples, and prime/composite numbers
- Use ratios and rates to solve real-world problems

2. Proportional Reasoning

- Represent and solve problems involving ratios, rates, and percents
- Convert between fractions, decimals, and percents
- Use proportional relationships to solve multi-step problems

3. Algebraic Reasoning

- Write, evaluate, and simplify numerical and algebraic expressions
- Understand and apply the order of operations
- Solve one-step and multi-step equations and inequalities

Course Resources

- Composition books - for Bell Work/Bell Ringer/Do Now
- Spirals - Thinking Spirals (Used for notes for new content they are unfamiliar with)
- Laptops
- StemScopes
- IXL
- I-Ready



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Grading Policy

According to Midland ISD Grading Policy:

Teachers are expected to use a variety of types of student work performance to assess student achievement. The teacher should choose those which are most appropriate to the class, the students, and the TEKS/SEs under study. Students will receive minor assignment feedback within three to five school days. Major assignments such as research projects, group projects, and research papers or other long-term projects shall receive a final cumulative grade within ten school days. However, the teacher shall award interim minor assessment grades for individual steps in the process. Major assignments - 60% Minor assignments - 40% which may include homework; however, homework may not constitute more than one fourth of the minor assessment summative grade.

School-wide System of Communication

Our campus uses ClassDojo to communicate with families. Please ensure you join our class for important updates.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

Please fill out the portion below and return this portion to Ms. Davis.

We acknowledge that we have read and that we understand the expectations in [grade level or course]. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: _____

Student Name: _____

Cell Phone Number: _____

E-Mail: _____

Parent Signature: _____

Student Signature: _____

Date: _____